PATENT COOPERATION TREATY

TRANSLATION From the INTERNATIONAL SEARCHING AUTHORITY To: WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) FOR FURTHER ACTION Applicant's or agent's file reference See paragraph 2 below PC5150JST Priority date (day/month/year) International filing date (day/month/year) International application No. 23.01.2004 21.01.2005 PCT/JP2005/000743 International Patent Classification (IPC) or both national classification and IPC Applicant JAPAN SCIENCE AND TECHNOLOGY AGENCY This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II Priority Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. III Lack of unity of invention Box No. IV Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial Box No. V applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Certain defects in the international application Box No. VII Certain observations on the international application Box No. VIII FURTHER ACTION If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCI/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220. Authorized officer Name and mailing address of the ISA/JP

Telephone No

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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2005/000743

Box	No. 1	Basis of this opinion					
1.	With r	egard to the language, this opini inless otherwise indicated under t	on has been established on the basis of the international application in the language in which it was his item.				
,	·	l'his opinion has been established	on the basis of a translation from the original language into the following language , which is the language of a translation furnished for the purposes of international search (under				
		Rule 12.3 and 23.1(b)).					
2.	With i	regard to any nucleotide and/o ion, this opinion has been establis	r amino acid sequence disclosed in the international application and necessary to the claimed shed on the basis of:				
	a. 1	type of material					
	[a sequence listing					
	[table(s) related to the seque	nce listing				
	b .	format of material					
	[in written format					
	Ī	in computer readable form					
	c.	time of filing/furnishing	·				
	ſ	contained in the internation	al application as filed.				
	i	filed together with the inter	national application in computer readable form.				
	Ĭ	furnished subsequently to t	his Authority for the purposes of search.				
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In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.							
4.	Λddit	ional comments:					
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Вох		Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
1.	Statement	_			
	Novelty (N)	Claims	2, 7	YES	
		Claims	1, 3-6, 8	NO	
	Inventive step (IS)	Claims		YES	
		Claims	1-8	NO	
	. Industrial applicability (IA) Claims	1-8	YES	
		Claims		NO	
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2. Citations and explanations:

Document 1: WO, 02/080936, Λ1 (ORTHO MCNEIL PHARMACEUTICAL, INC.), 17 October, 2002 (17.10.02)

Document 2: JP, 11-511472, Λ (Ligand Pharmaceuticals Inc.), 05 October, 1999 (05.10.99)
Document 3: Nanzando Igaku Daijiten Gokaban, 18th edition, pages 1486 to 1487, 16 January, 1998 (16.01.98)

<Claims 1, 3-6 and 8>

The subject matters of claims 1, 3-6 and 8 do not appear to be novel or to involve an inventive step in view of documents 1 and 2 cited in the ISR.

Document 1 describes that 9-cis-retinoic acid is an antidiabetic drug (pages 26 to 27).

Document 2 describes a method for treating non-insulin dependent diabetes mellitus (NIDDM) in which RXR agonist (9-cis-retinoic acid) is administered, and it can be prepared in the form of suspensions or particles.

As described in document 3, a relation ship between diabetes and spleen β cells is widely known, and objects to be treated in the physiological process involving the activation of spleen β cells include diabetes in view of the descriptions of the specification of this application.

<Claims 2 and 7>

The subject matters of claims 2 and 7 do not appear to involve an inventive step in view of documents 1 and 2 cited in the ISR.

A person skilled in the art could easily find an antidiabetic activity similarly in a stereoisomer of retinoic acid.

A person skilled in the art could accordingly conceive that the particle diameter is experimentally set in an optimum range when providing a medical preparation in the form of particles in the inventions described in documents 1 and 2.

The specification of this application only mentions the superiority/inferiority in the diabetes treating effect based on the presence/absence of retinoic acid, and since the diabetes treating effect of retinoic acid is publicly known, the effect of the subject matters of claims 1-8 is not found to be a noticeably remarkable effect that cannot be easily predicted by a person skilled in the art as compared to the prior art.